

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Hung T. Nguyen

Application No./Patent No.: 7,013,382 Filed/Issue Date: 3/14/2006

Entitled: Method for Grouping Non-Interruptible Instructions Prior to Handling an Interrupt Request

VeriSilicon Holdings (Cayman Islands) Co. Ltd., a corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or  
2. ☐ an assignee of less than the entire right, title and interest  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %)

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 018639, Frame 0192, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

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☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

<u>J. Joel Justiss</u>	<u>February 2, 2007</u>
Signature	Date
<u>J. Joel Justiss</u>	<u>972-480-8800</u>
Printed or Typed Name	Telephone Number
<u>Attorney for Applicant</u>	
Title	

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 03, 2007

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UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 11/09/2006

REEL/FRAME: 018639/0192  
NUMBER OF PAGES: 8

BRIEF: SALE

ASSIGNOR:

LSI LOGIC CORPORATION

DOC DATE: 06/30/2006

ASSIGNEE:

VERISILICON HOLDINGS (CAYMAN  
ISLANDS) CO. LTD.  
4699 OLD IRONSIDE DRIVE  
SUITE 270  
SANTA CLARA, CALIFORNIA 95054

SERIAL NUMBER: 08528509

FILING DATE: 09/12/1995

PATENT NUMBER: 5900025

ISSUE DATE: 05/04/1999

TITLE: PROCESSOR HAVING A HIERARCHICAL CONTROL REGISTER FILE AND METHODS  
FOR OPERATING THE SAME

SERIAL NUMBER: 08440993 FILING DATE: 05/15/1995  
 PATENT NUMBER: 5966529 ISSUE DATE: 10/12/1999  
 TITLE: PROCESSOR HAVING AUXILIARY OPERAND REGISTER FILE AND COMPLEMENTARY  
 ARRANGEMENTS FOR NON-DISRUPTIVELY PERFORMING ADJUNCT EXECUTION

SERIAL NUMBER: 08845817 FILING DATE: 04/29/1997  
 PATENT NUMBER: 5987603 ISSUE DATE: 11/16/1999  
 TITLE: APPARATUS AND METHOD FOR REVERSING BITS USING A SHIFTER

SERIAL NUMBER: 08841415 FILING DATE: 04/22/1997  
 PATENT NUMBER: 5987638 ISSUE DATE: 11/16/1999  
 TITLE: APPARATUS AND METHOD FOR COMPUTING THE RESULT OF A VITERBI EQUATION  
 IN A SINGLE CYCLE

SERIAL NUMBER: 08401411 FILING DATE: 03/09/1995  
 PATENT NUMBER: 6081880 ISSUE DATE: 06/27/2000  
 TITLE: PROCESSOR HAVING A SCALABLE, UNI/MULTI-DIMENSIONAL, AND VIRTUALLY/  
 PHYSICALLY ADDRESSED OPERAND REGISTER FILE

SERIAL NUMBER: 09096409 FILING DATE: 06/11/1998  
 PATENT NUMBER: 6061876 ISSUE DATE: 05/16/2000  
 TITLE: TEXTILE RECYCLING MACHINE

SERIAL NUMBER: 09235417 FILING DATE: 01/20/1999  
 PATENT NUMBER: 6523055 ISSUE DATE: 02/18/2003  
 TITLE: CIRCUIT AND METHOD FOR MULTIPLYING AND ACCUMULATING THE SUM OF TWO  
 PRODUCTS IN A SINGLE CYCLE

SERIAL NUMBER: 09467939 FILING DATE: 12/21/1999  
 PATENT NUMBER: 6622154 ISSUE DATE: 09/16/2003  
 TITLE: ALTERNATE BOOTH PARTIAL PRODUCT GENERATION FOR A HARDWARE MULTIPLIER

SERIAL NUMBER: 09847849 FILING DATE: 04/30/2001  
 PATENT NUMBER: 6687773 ISSUE DATE: 02/03/2004  
 TITLE: BRIDGE FOR COUPLING DIGITAL SIGNAL PROCESSOR TO ON-CHIP BUS AS  
 MASTER

SERIAL NUMBER: 09993431 FILING DATE: 11/05/2001  
 PATENT NUMBER: 6715038 ISSUE DATE: 03/30/2004  
 TITLE: EFFICIENT MEMORY MANAGEMENT MECHANISM FOR DIGITAL SIGNAL PROCESSOR  
 AND METHOD OF OPERATION THEREOF

SERIAL NUMBER: 09847850 FILING DATE: 04/30/2001  
 PATENT NUMBER: 6789153 ISSUE DATE: 09/07/2004  
 TITLE: BRIDGE FOR COUPLING DIGITAL SIGNAL PROCESSOR TO ON-CHIP BUS AS SLAVE

SERIAL NUMBER: 10028898 FILING DATE: 12/20/2001  
 PATENT NUMBER: 6813704 ISSUE DATE: 11/02/2004  
 TITLE: CHANGING INSTRUCTION ORDER BY REASSIGNING ONLY TAGS IN ORDER TAG  
 FIELD IN INSTRUCTION QUEUE

SERIAL NUMBER: 10007555	FILING DATE: 11/08/2001
PATENT NUMBER: 6871247	ISSUE DATE: 03/22/2005
TITLE: MECHANISM FOR SUPPORTING SELF-MODIFYING CODE IN A HARVARD ARCHITECTURE DIGITAL SIGNAL PROCESSOR AND METHOD OF OPERATION THEREOF	
SERIAL NUMBER: 09924178	FILING DATE: 08/07/2001
PATENT NUMBER: 6889318	ISSUE DATE: 05/03/2005
TITLE: INSTRUCTION FUSION FOR DIGITAL SIGNAL PROCESSOR	
SERIAL NUMBER: 10310234	FILING DATE: 12/05/2002
PATENT NUMBER: 6922760	ISSUE DATE: 07/26/2005
TITLE: DISTRIBUTED RESULT SYSTEM FOR HIGH-PERFORMANCE WIDE-ISSUE SUPERSCALAR PROCESSOR	
SERIAL NUMBER: 10701775	FILING DATE: 11/05/2003
PATENT NUMBER: 6956788	ISSUE DATE: 10/18/2005
TITLE: ASYNCHRONOUS DATA STRUCTURE FOR STORING DATA GENERATED BY A DSP SYSTEM	
SERIAL NUMBER: 09975677	FILING DATE: 10/11/2001
PATENT NUMBER: 6959376	ISSUE DATE: 10/25/2005
TITLE: INTEGRATED CIRCUIT CONTAINING MULTIPLE DIGITAL SIGNAL PROCESSORS	
SERIAL NUMBER: 09972404	FILING DATE: 10/05/2001
PATENT NUMBER: 6961844	ISSUE DATE: 11/01/2005
TITLE: SYSTEM AND METHOD FOR EXTRACTING INSTRUCTION BOUNDARIES IN A FETCHED CACHELINE, GIVEN AN ARBITRARY OFFSET WITHIN THE CACHELINE	
SERIAL NUMBER: 09901455	FILING DATE: 07/09/2001
PATENT NUMBER: 6963961	ISSUE DATE: 11/08/2005
TITLE: INCREASING DSP EFFICIENCY BY INDEPENDENT ISSUANCE OF STORE ADDRESS AND DATA	
SERIAL NUMBER: 10277341	FILING DATE: 10/22/2002
PATENT NUMBER: 6968430	ISSUE DATE: 11/22/2005
TITLE: CIRCUIT AND METHOD FOR IMPROVING INSTRUCTION FETCH TIME FROM A CACHE MEMORY DEVICE	
SERIAL NUMBER: 10408387	FILING DATE: 04/07/2003
PATENT NUMBER: 6973630	ISSUE DATE: 12/06/2005
TITLE: SYSTEM AND METHOD FOR REFERENCE-MODELING A PROCESSOR	
SERIAL NUMBER: 10047515	FILING DATE: 10/26/2001
PATENT NUMBER: 6976156	ISSUE DATE: 12/13/2005
TITLE: PIPELINE STALL REDUCTION IN WIDE ISSUE PROCESSOR BY PROVIDING MISPREDICT PC QUEUE AND STAGING REGISTERS TO TRACK BRANCH INSTRUCTIONS IN PIPELINE	
SERIAL NUMBER: 09993114	FILING DATE: 11/05/2001
PATENT NUMBER:	ISSUE DATE:
TITLE: MECHANISM AND METHOD FOR IDENTIFYING AND TRACKING CONDITIONAL INSTRUCTIONS AND DIGITAL SIGNAL PROCESSOR INCORPORATING THE SAME	

SERIAL NUMBER: 10002817 FILING DATE: 11/02/2001  
 PATENT NUMBER: 7013382 ISSUE DATE: 03/14/2006  
 TITLE: MECHANISM AND METHOD FOR REDUCING PIPELINE STALLS BETWEEN NESTED  
 CALLS AND DIGITAL SIGNAL PROCESSOR INCORPORATING THE SAME

SERIAL NUMBER: 10007498 FILING DATE: 11/13/2001  
 PATENT NUMBER: ISSUE DATE:  
 TITLE: PIPELINED MULTIPLY-ACCUMULATE UNIT AND OUT-OF-ORDER COMPLETION  
 LOGIC FOR A SUPERSCALAR DIGITAL SIGNAL PROCESSOR AND METHOD OF  
 OPERATION THEREOF

SERIAL NUMBER: 10066147 FILING DATE: 10/26/2001  
 PATENT NUMBER: 7107433 ISSUE DATE: 09/12/2006  
 TITLE: MECHANISM FOR RESOURCE ALLOCATION IN A DIGITAL SIGNAL PROCESSOR  
 BASED ON INSTRUCTION TYPE INFORMATION AND FUNCTIONAL PRIORITY AND  
 METHOD OF OPERATION THEREOF

SERIAL NUMBER: 10066150 FILING DATE: 10/26/2001  
 PATENT NUMBER: 7085916 ISSUE DATE: 08/01/2006  
 TITLE: EFFICIENT INSTRUCTION PREFETCH MECHANISM EMPLOYING SELECTIVE  
 VALIDITY OF CACHED INSTRUCTIONS FOR DIGITAL SIGNAL PROCESSOR AND  
 METHOD OF OPERATION THEREOF

SERIAL NUMBER: 10231948 FILING DATE: 08/30/2002  
 PATENT NUMBER: ISSUE DATE:  
 TITLE: SYSTEM AND METHOD FOR EXECUTING SOFTWARE PROGRAM INSTRUCTIONS USING  
 A CONDITION SPECIFIED WITHIN A CONDITIONAL EXECUTION INSTRUCTION

SERIAL NUMBER: 10256410 FILING DATE: 09/27/2002  
 PATENT NUMBER: 7020765 ISSUE DATE: 03/28/2006  
 TITLE: MARKING QUEUE FOR SIMULTANEOUS EXECUTION OF INSTRUCTIONS IN CODE  
 BLOCK SPECIFIED BY CONDITIONAL EXECUTION INSTRUCTION

SERIAL NUMBER: 10256864 FILING DATE: 09/27/2002  
 PATENT NUMBER: ISSUE DATE:  
 TITLE: SYSTEM AND METHOD FOR COOPERATIVE EXECUTION OF MULTIPLE BRANCHING  
 INSTRUCTIONS IN A PROCESSOR

SERIAL NUMBER: 10262414 FILING DATE: 09/30/2002  
 PATENT NUMBER: ISSUE DATE:  
 TITLE: SYSTEM AND METHOD FOR EFFICIENT EXECUTION OF LOAD/STORE WITH UPDATE  
 INSTRUCTIONS BY CONDITIONAL UPDATE OF A POINTER

SERIAL NUMBER: 10277339 FILING DATE: 10/22/2002  
 PATENT NUMBER: 7103757 ISSUE DATE: 09/05/2006  
 TITLE: SYSTEM, CIRCUIT, AND METHOD FOR ADJUSTING THE PREFETCH INSTRUCTION  
 RATE OF A PREFETCH UNIT

SERIAL NUMBER: 10279344 FILING DATE: 10/24/2002  
 PATENT NUMBER: ISSUE DATE:  
 TITLE: IN-CIRCUIT EMULATION DEBUGGER AND METHOD OF OPERATION THEREOF

SERIAL NUMBER: 10299532 FILING DATE: 11/18/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: PROCESSOR HAVING A UNIFIED REGISTER FILE WITH MULTIPURPOSE  
REGISTERS FOR STORING BOTH ADDRESS AND DATA REGISTER VALUES, A  
PROCESSOR HAVING AN INSTRUCTION DECODER AND AN ASSOCIATED REGISTER  
MAPPING METHOD

SERIAL NUMBER: 10303610 FILING DATE: 11/25/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD FOR GROUPING NON-INTERRUPTIBLE INSTRUCTIONS PRIOR TO  
HANDLING AN INTERRUPT REQUEST

SERIAL NUMBER: 10396265 FILING DATE: 03/25/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEM AND METHOD FOR EVALUATING AND EFFICIENTLY EXECUTING  
CONDITIONAL INSTRUCTIONS

SERIAL NUMBER: 10420581 FILING DATE: 04/22/2003  
PATENT NUMBER: 7028197 ISSUE DATE: 04/11/2006  
TITLE: SYSTEM AND METHOD FOR ELECTRICAL POWER MANAGEMENT IN A DATA  
PROCESSING SYSTEM USING REGISTERS TO REFLECT CURRENT OPERATING  
CONDITIONS

SERIAL NUMBER: 10437485 FILING DATE: 05/14/2003  
PATENT NUMBER: 7079147 ISSUE DATE: 07/18/2006  
TITLE: SYSTEM AND METHOD FOR COOPERATIVE OPERATION OF A PROCESSOR AND  
COPROCESSOR

SERIAL NUMBER: 10603303 FILING DATE: 06/25/2003  
PATENT NUMBER: 7051146 ISSUE DATE: 05/23/2006  
TITLE: DATA PROCESSING SYSTEMS INCLUDING HIGH PERFORMANCE BUSES AND  
INTERFACES, AND ASSOCIATED COMMUNICATION METHODS

SERIAL NUMBER: 10613128 FILING DATE: 07/03/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: PROCESSOR AND METHOD FOR CONVOLUTIONAL DECODING

SERIAL NUMBER: 10844941 FILING DATE: 05/13/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: HARDWARE LOOPING MECHANISM AND METHOD FOR EFFICIENT EXECUTION OF  
DISCONTINUITY INSTRUCTIONS

SERIAL NUMBER: 11006102 FILING DATE: 12/07/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: FOUR ISSUE QUAD LOAD/ STORE MULTIPLY-ACCUMULATE UNIT FOR A DIGITAL  
SIGNAL PROCESSOR AND METHOD OF OPERATION THEREOF

SERIAL NUMBER: 11081424 FILING DATE: 03/16/2005  
PATENT NUMBER: ISSUE DATE:  
TITLE: SINGLE-ISSUE DIGITAL SIGNAL PROCESSOR ARCHITECTURE HAVING BACKWARDS-  
COMPATIBLE INSTRUCTION SET AND METHOD OF OPERATION THEREOF

SERIAL NUMBER: 11083575 FILING DATE: 03/18/2005  
PATENT NUMBER: ISSUE DATE:  
TITLE: DIGITAL SIGNAL PROCESSOR HAVING INVERSE DISCRETE COSINE TRANSFORM  
ENGINE FOR VIDEO DECODING AND PARTITIONED DISTRIBUTED ARITHMETIC  
MULTIPLY/ACCUMULATE UNIT THEREFOR

SERIAL NUMBER: 11083646 FILING DATE: 03/18/2005  
PATENT NUMBER: ISSUE DATE:  
TITLE: DIGITAL SIGNAL PROCESSOR HAVING INVERSE DISCRETE COSINE TRANSFORM  
ENGINE FOR VIDEO DECODING AND PARTITIONED DISTRIBUTED ARITHMETIC  
MULTIPLY/ACCUMULATE UNIT THEREFOR

SERIAL NUMBER: 11128740 FILING DATE: 05/13/2005  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEM AND METHOD FOR REDUCING THE ADDRESSABLE MEMORY REQUIRED TO  
EXECUTE A COMPUTER PROGRAM

SERIAL NUMBER: 11222533 FILING DATE: 09/09/2005  
PATENT NUMBER: ISSUE DATE:  
TITLE: BRANCH PREDICTOR FOR A PROCESSOR AND METHOD OF PREDICTING A  
CONDITIONAL BRANCH

SERIAL NUMBER: 11246595 FILING DATE: 10/07/2005  
PATENT NUMBER: ISSUE DATE:  
TITLE: PROCESSOR IMPLEMENTING CONDITIONAL EXECUTION AND INCLUDING A SERIAL  
QUEUE

SERIAL NUMBER: 11273679 FILING DATE: 11/14/2005  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEM AND METHOD FOR SIMULTANEOUSLY EXECUTING MULTIPLE CONDITIONAL  
EXECUTION INSTRUCTION GROUPS

MARY BENTON, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

11-13-2006

Form PTO-1596 (Rev. 07/05)  
OMB No. 0691-0027 (Rev. 8/30/2006)U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

103335451

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

## 1. Name of conveying party(ies)

LSI Logic Corporation  
1621 Barber Lane  
M/S D-108  
Milpitas, CA 95035Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

## 3. Nature of conveyance/Execution Date(s):

Execution Date(s) June 30, 2006

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☒ Other Sale

## 2. Name and address of receiving party(ies)

Name: VeriSilicon Holdings (Cayman Islands) Co. Ltd.  
Internal Address: Suite 270

Street Address: 4929 Old Ironsiding Drive

City: Santa Clara

State: California

Country: USA

Zip: 95054

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application or patent number(s):

A. Patent Application No.(s)

☐ This document is being filed together with a new application.  
B. Patent No.(s)Additional numbers attached? ☒ Yes ☐ No

## 5. Name and address to whom correspondence concerning document should be mailed:

Name: Prasad Kaluri

Internal Address: Suite 430

Street Address: 600 North Central Expressway

City: Plano

State: Texas

Zip: 75074

Phone Number: 972-244-5130

Fax Number: 972-244-5101

Email Address: prasad.kaluri@verisilicon.com

## 6. Total number of applications and patents involved:

7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$ 2,080.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

## 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 08-2395

Authorized User Name David H. Hitt

## 9. Signature:

Signature

NOV 9, 2006

Date

SESHAGRI PRASAD KALURI  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 8

Documents to be recorded (including cover sheet) should be filed to (971) 273-0145, or mailed to:  
Mail Stop Assignment Recordation Service, Director of the USPTO, P.O. Box 1449, Alexandria, VA 22313-1449



Patents and Patent ApplicationsIssued Patents

No.	Serial No.	Issue No.	Patent Title	Filing Date	Issue Date
1	08/528,509	5,900,025	A processor having a hierarchical control register file and methods for operating the same Auxiliary operand register file and complementary arrangements for non-disruptively performing adjunct execution by a processor having a virtually addressable primary operand register file	9/12/1995	5/4/1999
2	08/440,993	5,956,529	An apparatus and method for reversing bits using a shifter	5/15/1995	10/12/1999
3	08/848,817	5,987,903	An Apparatus and method for computing the results of a vector equation in a single cycle	4/28/1997	11/18/1999
4	08/841,418	5,987,938	Processor having a scalable uni/multidimensional and-bis-virtually/physically addressable operand register file	4/22/1997	11/18/1999
5	08/401,411	6,081,880	Register Memory Linking	9/9/1995	6/27/2000
6	09/098,403	6,280,112	Circuit and method for multiplying and accumulating the sum of two products in a single cycle	3/5/1998	7/10/2001
7	09/285,417	6,523,055	Alternate Booth Partial Product Generation for a Hardware Multiplier	1/20/1999	2/18/2003
8	09/467,999	6,622,164	Bridge For Coupling Digital signal Processor To On-Chip Bus As Master	12/21/1998	9/16/2003
9	09/847,849	6,687,773	Efficient Memory Management Mechanism for Digital Signal Processor and Method of Operation Thereof	4/30/2001	2/3/2004
10	09/993,491	6,718,038	Using AMBA For Signal Processor Core Integration	11/9/2001	3/30/2004
11	09/847,880	6,789,159	Changing Instruction Order By Reassigning Only Tags in Order Tag Field in Instruction Queue	4/30/2001	6/7/2004
12	10/028,896	6,813,704	A Method For Memory Sharing And Self-Modifying Code Handling In A Harvard Architecture DSP	12/20/2001	11/2/2004
13	10/007,555	6,871,247	Instruction Fusion For Digital Signal Processor	11/8/2001	3/22/2005
14	08/924,178	6,889,318	Distributed Result System for High-Performance Wide-Issue Superscalar Processor	6/7/2001	5/5/2005
15	10/910,294	6,922,760	Asynchronous Data Structure for Storing Data Generated by a DSP System	12/5/2002	7/25/2006
16	10/701,775	6,956,766	Integrated Circuit Containing Multiple Digital Signal Processors	11/5/2005	10/18/2005
17	09/875,677	6,959,976		10/11/2001	10/25/2005

No.	Serial No.	Issue No.	Patent Title	Filing Date	Issue Date
18	09/972,404	6,981,944	System and Method for Extracting Instruction Boundaries in a Fetch Cache Line, Given an Arbitrary Offset within the Cache line	10/8/2001	11/1/2005
19	09/901,455	6,983,981	Increasing DSP Efficiency by Independent Issuance of Store Address and Data	7/8/2001	11/8/2005
20	10/277,341	6,985,430	Circuit and Method for Improving Instruction Fetch Time from a Cache Memory Device	10/22/2002	11/22/2005
21	10/408,887	6,978,630	System and Method for Reference-Modeling a Processor Pipeline Stall Reduction in Wide Issue Processor by Providing Mispredict PC Queue and Staging Registers to Track Branch Instructions in Pipeline	4/7/2003	12/6/2005
22	10/047,815	6,978,158		10/28/2001	12/19/2005

## Patent Applications

No.	Serial No.	Issue No.	Patent Title	Filing Date	Issue Date
1	09/999,114		Mechanism and Method For Conditionally Executing Instructions and Digital Signal Processor Incorporating The Same	11/8/2001	
2	10/002,817	7,013,582	Mechanism And Method For Reducing Pipeline Stalls Between Needed-Calls and Digital Signal Processor Incorporating The Same	11/2/2001	8/14/2006
3	10/007,498		Pipelined Multiply-Accumulate Unit and Out-Of-Order Completion Logic For A Superscalar Digital Signal Processor And Method Of Operation Thereof	11/13/2001	
4	10/066,147		Mechanism for Resource Allocation in a Digital Signal Processor and Method of Operation Thereof	10/29/2001	
5	10/066,150		A Method For Instruction Prefetch in A Four-Way Superscalar Harvard Architecture DSP With A Small Direct-Mapped Instruction Cache	10/29/2001	
6	10/231,945		System and Method for Conditionally Executing Software Program Instructions	9/30/2002	
7	10/255,410	7,020,785	System and Method for Simultaneously Executing Multiple Conditional Execution Instruction Groups	9/27/2002	9/28/2006
8	10/255,864		System And Method For Conditionally Executing An Instruction Dependent On A Previously Existing Condition	9/27/2002	
9	10/282,414		System and Method For Selectively Updating Pointers Used in Conditionally Executed Load/Store With Update Instructions	9/30/2002	

No.	Serial No.	Issue No.	Patent Title	Filing Date	Issue Date
10	10/277,339		System, Circuit, and Method for Adjusting Prefetch Instruction Rate	10/22/2002	
11	10/279,844		In-Circuit Emulation Debugger and Method of Operation Thereof	10/24/2002	
12	10/299,532		Processor Having a Unified Register File with Multipurpose Registers for Storing Address and Data Register Values, and Associated Register Mapping Method	11/15/2002	
13	10/309,810		Method for Grouping Non-Interruptible Instructions Prior to Handling an Interrupt Request	11/25/2002	
14	10/366,265		System and Method for Evaluating and Efficiently Executing Conditional Instructions	3/25/2003	
15	10/420,581	7,028,187	System and Method For Electrical Power Management In a Data Processing System Using Registers To Reflect Current Operating Conditions	4/22/2003	4/11/2008
16	10/437,485		System and Method For Cooperative Operation Of A Processor And Coprocessor	5/14/2003	
17	10/603,303	7,051,145	Data Processing Systems Including High-Performance Buses and Interfaces, and Associated Communication Methods	5/25/2003	5/23/2008
18	10/613,128		Processor and Method for Convolutional Decoding	7/3/2003	
19	10/644,941		Hardware Looping Mechanism and Method for Efficient Execution of Discontinuity Instructions	5/13/2004	
20	11/608,102		Four Issue Queue Load/Store Multiply-Accumulate Unit for a Digital Signal Processor and Method of Operation Thereof	12/7/2004	
21	11/091,424		Single-Issue Digital-Signal Processor Architecture Having Backwards-Compatible Instruction Set and Method of Operation Thereof	3/18/2005	
22	11/083,573		DIGITAL SIGNAL PROCESSOR HAVING INVERSE DISCRETE COSINE TRANSFORM ENGINE FOR VIDEO DECODING AND PARTITIONED DISTRIBUTED ARITHMETIC MULTIPLY/ACCUMULATE UNIT THEREFOR	3/18/2005	
23	11/083,645		DIGITAL SIGNAL PROCESSOR HAVING INVERSE DISCRETE COSINE TRANSFORM ENGINE FOR VIDEO DECODING AND PARTITIONED DISTRIBUTED ARITHMETIC MULTIPLY/ACCUMULATE UNIT THEREFOR	3/18/2005	

No.	Serial No.	Issue No.	Patent Title	Filing Date	Issue Date
24	11/128,740		System and Method for Reducing the Addressable Memory Required to Execute a Computer Program Branch Predictor For A Processor And Method Of Predicting A Conditional Branch	5/13/2005	
25	11/222,533		Processor Implementing Conditional Execution and Including a Serial Queue	9/9/2005	
26	11/248,895		System and Method for Simultaneously Executing Multiple Conditional Execution Instruction Groups	10/7/2005	
27	11/278,079		Floating point data format for fast execution on fixed point processors	11/14/2005	
28	LSI Docket # 05-1230		A Processor Independent Cache Management Mechanism		
29	LSI Docket # 05-1690		Floating Point Hardware Accelerator-Coprocessor for Fixed-Point Processors based on the ZSP Fast Floating Point Format (ZSPFF)		
30	LSI Docket # 05-2212				

## ASSIGNMENT OF PATENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of LSI LOGIC CORPORATION, a Delaware corporation ("LSI Logic"), having offices at 1621 Barber Lane, Milpitas, CA 95035, and LSI LOGIC HK HOLDINGS, an exempted company with limited liability under the laws of Cayman Islands and a wholly-owned subsidiary of LSI Logic Corporation (together with LSI Logic, the "Assignor"), the mailing address of which is PO Box 1034GT, Harbour Place, 4th Floor, 103 South Church Street, Grand Cayman, Cayman Islands, does hereby sell, assign and transfer and agree to sell, assign and transfer unto VERISILICON HOLDINGS (CAYMAN ISLANDS) CO., LTD., an exempted company with limited liability under the laws of the Cayman Islands ("Assignee"), having offices at 4699 Old Ironworkers Drive, Suite 270, Santa Clara, CA 95054, or its designee, all of such Assignor's right, title and interest in and to the following Patent Applications, Letters Patent and any reissues and continuations thereof:

U.S. Patent or Application No.	Issue Date Filing Date Priority	Description
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and in all counterparts of the foregoing patents filed or issued in foreign countries, as to which such Assignor agrees to furnish and to execute on a country-by-country basis specific Assignments as requested by Assignee or any such designee.

Each of the Assignors covenants that it is the sole owner and assignee and holder of record title to the above-identified United States Letters Patent (and foreign counterparts thereof), as applicable, by virtue of assignments to the U.S. filed patents and applications previously executed and recorded in the United States Patent and Trademark Office and that it has full power to make the present assignment.

Each of the Assignors further sells, assigns, transfers and conveys on to Assignee the entire right, title and interest in and to any and all causes of action and rights or recovery for past infringement of the applicable Letters Patent herein assigned.

Each of the Assignors also hereby authorizes, as applicable, the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the patent applications hereto referenced to Assignee, as the assignee to the entire interest therein.

LSI LOGIC CORPORATION

By: \_\_\_\_\_

Title: \_\_\_\_\_

LSI LOGIC HK HOLDINGS

By: \_\_\_\_\_

Title: \_\_\_\_\_

ATTEST:

By: \_\_\_\_\_

Title: \_\_\_\_\_

LSI LOGIC CORPORATION

By: *Rajiv Loh*Title: *VP & CEO*

LSI LOGIC HK HOLDINGS

By: *Rajiv Loh*Title: *President and Director*

ATTEST:

By: *Anthony A. Abella*Title: *President/Chairman*

Assignment of Patent

CERTIFICATION

STATE OF California  
COUNTY OF San Diego ) ss.

On this 30 day of June, 2006, before me, the undersigned, a Notary Public for the State of California, personally appeared Bryan Lark, personally known to me (or proved to me as the sole authentic evidence) to be the person who executed the foregoing instrument as President of the corporation named therein, and acknowledged to me that he executed the same as his voluntary act on behalf of such corporation with authority to do so for the purposes therein set forth.

Betsy A. Abella  
Notary Public

My Commission expires: Aug 15 2009



Assignment of Patent